District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 Prone: (3/3) 393-6161 Fax: (575) 393-0720

<u>District II</u>

811 S. Füst St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720

<u>District III</u>

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>
1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

JUL 2 6 2018

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

0

DISTRICT II-ARTESIA O.C.D.

| AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPL	CATIC	N FOR	PERI	MIT TO D	RILL, RE-I	ENTER, I	EEPEN.	, PLUGBACI	K, OR A	DD A ZONE	
Fasken Oil and Ranch, Ltd. Operator Name and Address 6101 Holiday Hill Road							OGRID Number 151416				
Midland, TX 79707											
							30-015-344	30-015-34429 API Number			
	1	8197		Но	Propert well State Co	y ivame m			<u> </u>	Well No.	
	Υ				7. Surface	Location					
UL-Loi N	Section 32	Township 20S	Ra 25		t ldn Fee	t from 50	N/S Line South	Feet From 1980	E/W Line West	County Eddy	
		-			Proposed Bott	tom Hole La	cation				
UL - Lot			nge Lo	t ldin Fee	t from	N/S Line	Feet From	E/W Line	County		
					9. Pool Info	rmation					
			S	even Rivers I	Pool Name Hills; Atoka N					Pool Code 97272	
				A	dditional Wel						
··· Wo	rk Type P	į	' Wel	1 Туре	13. Cable	e/Rotary		1. Lease Type		Fround Level Elevation	
IK M	ultiple		17. Propos	ed Depth		mation	 	S 19. Contractor		3664'	
	1		8962		Ato		3/1/06				
Depth to Grou	ind water	183'		Distance from	nearest fresh wat	er well 14	Distance to nearest surface water greater than 1 mile				
₩e will b	e using a c	losed-loop	system i	n lieu of lined					utor than 1	inic	
	- 				sed Casing an	d Cement F	rogram '			 	
Туре		Size	Casing !		sing Weight/ft		ing Depth	Sacks of Ce	ment	Estimated TOC	
	'	1/2"	13 3/8		48	411	411' 400				
	12	1/4"	9 5/8"		36		2968'				
	8 3	/4"	4 1/2"		11.6		9775' 110				
				Casing/Cem	ent Program:	Additional	Comment	8			
				22. D	- 1 D1 - 4 F				<u> </u>		
- ,	T		Т.		sed Blowout F	revention F					
···	Туре			Working	Working Pressure		Test Press	Test Pressure		Manufacturer	
			_ 1					<u></u> .l.,	·		
tool of the kill	OW ICCIRC BILL	i ochel.		ove is true and o			OIL	CONSERVATI	ON DIVI	SION	
I further certify that I have compiled with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC , if applicable.					Approved By:						
Signature:	tupha		Later	ano.) '	1 20 7)		
Printed name: Stephanie Gutierrez					Title: Cieologisti						
Title: Regulatory Analyst					Approved Date: 7-26-18 Expiration Date: 7-26-20						
E-mail Addres	E-mail Address: stephanieg@forl.com					1		- CO LAND	- Janon Duite.	1 2- 20	
Date: 7/23/	Date: 7/23/18 Phone: 432-687-1777					Conditions of Approval Attached					
				· · ·			.,				

District.1
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District.11
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District.111
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District.11V
1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

			VELL LO	CATION	NAND ACR	EAGE DEDIC	ATION PLAT	r		
30-015	г		² Pool Code 97272			•				
⁴ Property Code 18197				97272 Seven Rivers; Atoka N. Seven Rivers; Atoka N. Howell State Com					Well Number	
⁷ OGRID No. 151416				Fasken Oil and Ranch, Ltd.					³ Elevation 3664¹	
					• Surface L	ocation				
UL or lot no.	Section 32	Township 20S	Range 25E	Lot Idn	Feet from the	North/South line South	Feet from the	East/West line West	County	
·			" Во	ttom Hole	Location If	Different From	Surface			
UL or let no.	Section	Township	Range		Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres	5 Soint or	lafili 14 (Consolidation (Code 15 Ord	er No.		<u>_</u>	<u></u>		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16			T T	
		1		"OPERATOR CERTIFICATION
			1	I hereby certify that the information contained herein is true and complete
	İ			to the best of my knowledge and belief, and that this organization either
		1		ours a working interest or unleased mineral interest in the land including
		1		the proposed bottom hole location or has a right to drill this well at this
'		}	'	location pursuant to a contract with an owner of such a mineral or working
<u> </u>	1	1	1	interest, or to a voluntary pooling agreement or a compulsory pooling
		<u> </u>	<u> </u> '	order heretofore entered by the division.
1	1	1		1 Danie Mitigan angua
<u> </u>	1	1	1	Signature 7/23/18
1	1	1	1	0
i '	1	1	· '	Stephanie Gutierrez
i	1	1	1	Printed Name
!	1	1 '	1	stephanieg@forl.com
,	1	1	1	E-mail Address
<u> </u>	l !	1	·	1
				*CHOVENOD CEDTIEICATION
, <u> </u>	1	1	1	"SURVEYOR CERTIFICATION
	1	1	[]	I hereby certify that the well location shown on this
	1	1	1	plat was plotted from field notes of actual surveys
1	1	1	1 1	made by me or under my supervision, and that the
,	1	1	l "	same is true and correct to the best of my belief.
.]:	1 .	1		and and correct to the best of my beneg.
:	L	1	1	
				Date of Survey
1	<u> </u>		1 1	Signature and Seal of Professional Surveyor:
1980'	1	,	1 1/	i
1980		, , , , , , , , , , , , , , , , , , , ,	I I	4
		1	i [7	d d
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1	, , , ,	, J		1
	. 1	, , , , , , , , , , , , , , , , , , , ,	i [/	Certificate Number
				4

RN 7-26-18.

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Phone: (505) 476-3460 Fax: (505) 476-3462

30-015-34429

⁴ Property Code

OGRID No.

151416

18197

API Number

. (1 '

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

Well Number

'Elevation 3664'

WELL LOCATION AND ACREAGE DEDICATION PLAT

⁵ Property Name

Cemetary Pool Name

Seven Rivers; Atoka N.

Peol Code

27272 74680

Howell State Com

Operator Name Fasken Oil and Ranch, Ltd.

					 Surface I 	Location			
UL or lot no. N	Section 32	Township 20S	Range 25E	Lot 1d	dn Feet from the 660	North/South line South	Feet from the	East/West line West	County Eddy
			" Bc	ttom H	ole Location If	Different Fron	n Surface		
UL or lot no.	Section	Township	Range	Lot Id	dn Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320	s 13 Joint o	r Infill 14 (Consolidation	Code 15	Order No.				
No allowable v division.	will be ass	signed to th	his complet	tion until	all interests have h	been consolidated	or a non-standa	rd unit has been ap	proved by the
16							I hereby certifies to the best of ones a working the proposed focusion pure interest, or to order heretoft Signature. Stepha Reinted Name	nieg@forl.com	of herein is true and complete that this organization either interest in the land including tight to drill this well at this or of such a mineral or working
198	30'		.099				I hereby c plat was p made by n same is to	nd Seal of Professional Sur	ation shown on this of actual surveys ision, and that the est of my belief.

Res 7-26-18

Howell State Com No. 3 660' FSL & 1980' FWL Sec 32, T20S R25E

OBJECTIVE: WELL DATA:	Recomplete to Atoka or Wolfcamp
API Number:	30-015-34429
13-3/8" 48#/ft H-40 casing:	Set at 410.64' KB Cmt w/400 sx "C (14.8 ppg, 1.32 ft3/sk). TOC
in in the state of	surface. circ 97 sx
9-5/8" 36.0#/ft J-55 casing:	Set at 2967.67' KB, Cmt w/ 600 sx "C" w/4% gel (13.5 ppg, 1.74
in the store solumities as casing.	
	ft3/sk) +200 sx "C" w/2% CaCl2 (14.8 ppg, 1.32 ft3/sk). TOC
4 4 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	surface, circ 313 sx.
4-1/2" 11.6# N-80 LT&C casing:	Set at 9,774.99' Cmt w/1100 sx BJ Super "H" (13.8 ppg, 1.39
The state of the s	ft3/sk). TOC 6472 by temp survey.
	Marker its 10.15' @ 7187.93', and 11.17' @ 9326.09'
Perfs:	Morrow:
It was the state of the state o	t '9413'-34' (22h, 8-8-06)
	CIBP 8480' (8-4-06)
	9501'-04' (6-22-06)
	9514'-22' (6-22-06),
	9580'-9586' (5-18-06)
Tubing:	3-1/2" WL entry guide (0.40'), 2-3/8" x10' EUE 8rd N80 tubing
The state of the s	sub (10.09'), 4-1/2"Arrowset IX 10k (6.18'), 3-3/4" x 2-3/8" x
	1.875" "F" steel profile nipple TOSSD (1.72'), 295 jts EUE 8rd N-
	80 tbg (9301.98').
TD:	9,800'
PBTD:	
, FDID.	9770' (9,725.39' Float Collar)

- 1. Test mast anchors.
- 2. Set test tank and lay flowline.
- 3. RUPU. Receive 6 jts 2-3/8" EUE 8rd N80 tubing to tag PBTD.
- 4. RU pump truck and kill well w/ 35 bbls 2% KCL w/corrosion inhibitor, biocide, and oxygen scavenger.
- 5. NDWH, NU BOP.
- 6. Release packer, POW with tubing and packer.
- 7. RU WL lubricator. RIW with 4-1/2" CIBP and set at +/-9350' (minimum 50' above top perforation at 9413'). RIW with WL bailer and spot 35' (3sx) of Class "H" neat cement on CIBP for PBTD 9315' (bottom of Atoka perforations 9103'). RD WL.
- 8. RU pump truck and load well with fresh water. Test casing and plug to 3000 psi on chart recorder w/1 hr clock (calibrated within last 6 months).
- 9. RIW with 2-3/8" EUE 8rd WL entry guide, 2-3/8"x10' EUE 8rd N-80 tubing sub, Arrowset IX 10k packer, TOSSD with 1.781" "F" profile nipple, about 281 joints 2-3/8" EUE 8rd 4.7#/ft N-80 tubing to and set packer at +/- 8875'.
- Release TOSSD and circulate well with 2% KCL water w/corrosion inhibitor, biocide, and oxygen scavenger.
- 11. ND BOP. NUWH double valve flow tree, setting packer in 12 points compression.
- 12. Swab tubing volume to 8000' from surface.
- 13. RUWL with 3000 psi lubricator and grease. Perforate Atoka with 1-11/16" Gamma strip gun as follows:

8958' - 69' (10h, 1JSPF) 9034' - 38' (5h, 1JSPF) 9096' - 9103' (8h, 1JSPF)

23 total holes by Halliburton Spectral Density/Dual Spaced Neutron Log dated 29-Apr-2006. POW, checking that all shots fired, and RDWL.

- 14. Flow test, swab and evaluate fluid entry.
- 15. If stimulation necessary, RU pumping service. Trap 500 psi on annulus. Acidize Atoka perfs 8958'-9103' (23h) via 2-3/8" tubing with 750 gal 7-1/2% HCL dropping 40 1.3 sp. gr. RCN ball sealers evenly spaced in the last 500 gallons. Max pressure 3000 psi. Flush with 2% Kcl water. RD stimulation service.
- 16. Swab and flow back acid and load water to steel test tank and evaluate.
- 17. Flow well and evaluate.
- 18. Return well to sales.
- 19. <u>If Atoka is non-commercial</u>, RU pump truck and kill well w/ 35 bbls 2% KCL w/corrosion inhibitor, biocide, and oxygen scavenger.
- 20. NDWH, NU BOP.
- 21. Release packer, POW with tubing and packer.
- 22. RIW with 4-1/2" CIBP, 4' perforated sub, SN, 2-3/8 EUE 8rd 4.7#/ft N-80 tubing, and set CIBP at +/-8900' (minimum 50' above top perforation at 8958').
- 23. RU pump truck and circulate well with 2% Kcl w/corrosion inhibitor, biocide, and oxygen scavenger.
- 24. Test casing and plug to 2500 psi on chart recorder w/1 hr clock (calibrated within last 6 months).
- 25. RU cementers and pump 29 bbls 9.5 ppg mud laden brine water containing 12.5#/bbl salt gel, 1 bbl freshwater spacer and spot 25 sx class "H" cement (1.07 cuft/sk yield) above CIBP 8900' for a PBTD of 8593' (bottom of Wolfcamp perforations 7285'). Displace cement with 1 bbl fresh water spacer and 2% Kcl water. POW 10 stands and WOC 4 hours and tag plug at 8593'.
- 26. POW laying down 54 joints 2-3/8" EUE 8rd 4.7#/ft N-80 tubing.
- 27. RIW with 2-3/8" EUE 8rd WL entry guide, 2-3/8"x10' EUE 8rd N-80 tubing sub, Arrowset IX 10k packer, TOSSD with 1.781" "F" profile nipple, about 281 joints 2-3/8" EUE 8rd 4.7#/ft N-80 tubing to and set packer at +/- 7175'.
- 28. Release TOSSD and circulate well with 2% KCL water w/corrosion inhibitor, biocide, and oxygen scavenger.
- 29. ND BOP. NUWH double valve flow tree, setting packer in 12 points compression.
- 30. Swab tubing volume to 6000' from surface.
- 31. RUWL with 3000 psi lubricator and grease. Perforate Wolfcamp with 1-11/16" Gamma strip gun as follows:

21 total holes by Halliburton Spectral Density/Dual Spaced Neutron Log dated 29-Apr-2006. POW, checking that all shots fired, and RDWL.

- 32. Flow test, swab and evaluate fluid entry.
- 33. If stimulation necessary, RU pumping service. Trap 500 psi on annulus. Acidize Atoka perfs 7264'-85' (21h) via 2-3/8" tubing with 1500 gal 15% NEFE HCL acid dropping 60 ball sealers evenly spaced. Rate 2-4 bpm at max pressure 3000 psi. RD stimulation service.
- 34. Swab and flow back acid and load water to steel test tank and evaluate.
- 35. Flow well and evaluate.
- 36. Return well to sales.
- 37. RDPU.

7-20-18

Howell State Com No. 3

GL: 36641 KB: 3681.5' |13-3/8" 48# H-40 @ 410.64' TOC surf, circ 97 sx 9-5/8" 36# J-55 @ 2967.67' KB TOC surf, circ 313 sx TOC 6472' by Temp Mrkr Jt 10.15' @7187.93'-7198.08' 9318.70 Mrkr Jt 11.17' @ 9326.09'-9337.26' 9413'-34' 9480 CIBP 9501'-9504' 9514'-9522' 9580'-9586' PBTD: 9770' (9,725.39' FC) 9800' 4-1/2" 11.6# N-80 LT&C@ 9,774.99'

Current as of 8-7-06

Operator:	Fasken Oil and Ranch, Ltd.
Location:	660' FSL and 1980' FWL

Sec 32, T20S, R25E Eddy County, NM

Compl.: 05/1/2006 released rig

API #: 30-015-34429

TD: 9800'

PBTD: 9770' (9,725.39' FC)

Casing: 13-3/8" 48# H-40 @ 410.64'

w/400 sx "C"+2% Cacl2 (14.8ppg, 1.32 ft3/sk)

TOC surf, circ 97 sx

9-5/8" 36# J-55 @ 2967.67' KB

w/600sx "C"w/4%gel (13.5ppg, 1.74 ft3/sk) +200sx "C" w/2% CaCl2 (14.8ppg, 1.32 ft3/sk)

TOC surf, circ 313 sx

4-1/2" 11.6# N-80 LT&C@ 9,774.99' 1100 sx BJ Super "H" (13.8ppg, 1.39ft³/sk)

TOC 6472' by Temp

Tubing:

8/6/2018	3-1/2" WL entry guide	0.40
	2-3/8"x10' EUE 8rd N-80 tbg sub	10.09
AJL:	4-1/2"Arrowset IX 10k w/	6.18
31.53	3-3/4"x2-3/8"TOSSDw/1.875" "F"PN	1.72
	295 jts 2-3/8" EUE 8rd N-80 tbg	<u>9301.98</u>
	Total	9320.37
	KB	17.00
	Slackoff (23pts)	-2.00
	EOT	9335.37

Perfs: Morrow

9413'-34' (22H, 0.23" EHD) 8/8/2006
P480' 8/4/2006
P501'-9504' (4H, 0.23" EHD) 6/22/2006
P514'-9522' (9H, 0.23" EHD) 6/22/2006
P580'-9586' (36h, 0.41 EHD) 5/18/2006

Hole Sizes 17-1/2" 410', 12-1/4" 2995', 8-3/4" 9800'

Howell State Com No. 3

Proposed Atoka 7-20-18 GL: 3664' Fasken Oil and Ranch, Ltd. Operator: KB: 3681.5' Location: 660' FSL and 1980' FWL Sec 32, T20S, R25E Eddy County, NM 13-3/8" 48# H-40 @ 410.64¹ 05/1/2006 released rig Compl.: TOC surf, circ 97 sx API# 30-015-34429 TD: 9800' PBTD: 9770' (9,725.39' FC) 13-3/8" 48# H-40 @ 410.64' Casing: w/400 sx "C"+2% Cacl2 (14.8ppg, 1.32 ft3/sk) TOC surf, circ 97 sx 9-5/8" 36# J-55 @ 2967.67' KB 9-5/8" 36# J-55 @ 2967.67' KB TOC surf, circ 313 sx w/600sx "C"w/4%gel (13.5ppg, 1.74 ft3/sk) +200sx "C" w/2% CaCl2 (14.8ppg, 1.32 ft3/sk) TOC surf. circ 313 sx 4-1/2" 11.6# N-80 LT&C@ 9,774.99" 1100 sx BJ Super "H" (13.8ppg, 1.39ft³/sk) TOC 6472' by Temp **Proposed** TOC 6472' by Temp Tubing: 0.40 3-1/2" WL entry guide 2-3/8"x10" EUE 8rd N-80 tbg sub 10.00 Mrkr Jt 10.15' @7187.93'-7198.08' AJL: 6.20 4-1/2"Arrowset IX 10k w/ 31.53 3-3/4"x2-3/8"TOSSDw/1.875" "F"PN 1.70 8860.00 281 jts 2-3/8" EUE 8rd N-80 tbg Total 8878.30 KB 17.00 Slackoff (23pts) -2.00 EOT 8893.30 Pkr: 8876.70 Proposed: 8958'-69' **Atoka** 8958'-69' (10h, 1spf, 0.23") 9034'-38' 9034'-38' 9096-'9103' (5h, 1spf, 0.23") 9096-'9103' (8h, 1spf, 0.23") 9315-9350', 3sx"H"WL dmp bailer Plug1 9315'-9350' 3sx"H" dmp bailer Mrkr Jt 11.17' @ 9326.09'-9337.26' CIBP CIBP 9350' 9350' 9413'-34' Morrow 9413'-34' (22H, 0.23" EHD) CIBP 9480' 8/8/2006 CIBP 9480' 8/4/2006 9501'-9504' 9501'-9504' (4H, 0.23" EHD) 6/22/2006 9514'-9522' 9514'-9522' (9H, 0.23" EHD) 6/22/2006 9580'-9586' 9580'-9586' (36h, 0.41 EHD) PBTD: 9770' (9,725.39' FC) 5/18/2006 9800' Hole Sizes 17-1/2" 410', 12-1/4" 2995', 8-3/4" 9800' 4-1/2" 11.6# N-80 LT&C@ 9,774.99'

Howell State Com No. 3

Proposed Wolfcamp 7-20-18 GL: 3664' Operator: Fasken Oil and Ranch, Ltd. KB: 3681.5' Location: 660' FSL and 1980' FWL Sec 32, T20S, R25E Eddy County, NM 13-3/8" 48# H-40 @ 410.64' Compl.: 05/1/2006 released rig TOC surf, circ 97 sx API#: 30-015-34429 TD: 9800' PBTD: 9770' (9,725.39' FC) 13-3/8" 48# H-40 @ 410.64' Casing: w/400 sx "C"+2% Cacl2 (14.8ppg, 1.32 ft3/sk) TOC surf, circ 97 sx 9-5/8" 36# J-55 @ 2967.67' KB 9-5/8" 36# J-55 @ 2967.67' KB TOC surf, circ 313 sx w/600sx "C"w/4%gel (13.5ppg, 1.74 ft3/sk) +200sx "C" w/2% CaCl2 (14.8ppg, 1.32 ft3/sk) TOC surf, circ 313 sx 4-1/2" 11.6# N-80 LT&C@ 9,774.99' 1100 sx BJ Super "H" (13.8ppg, 1.39ft³/sk) TOC 6472' by Temp **Proposed** TOC 6472' by Temp Tubing: 0.40 3-1/2" WL entry guide 10.00 2-3/8"x10' EUE 8rd N-80 tbg sub 6.20 AJL: 4-1/2"Arrowset IX 10k w/ 3-3/4"x2-3/8"TOSSDw/1.875" "F"PN 1.70 7174.70 31.53 7157.00 Mrkr Jt 10.15' @7187.93'-7198.08' 227 jts 2-3/8" EUE 8rd N-80 tbg 7264'-72' 7175.30 Total 7274'-85' 17.00 ΚB -1.00 Slackoff (23pts) 7191.30 **EOT** Plg2 8593'-8900', 25sx "H" CIBP Proposed: 8900' Wolfcamp 7264'-72' (9h, 1spf, 0.23") 8958'-69' 7274'-85' 9034'-38' (12h, 1spf, 0.23") Plua₂ 8593'-8900' 25 sx "H" Tag 9096-'9103' CIBP 8900' (10h, 1spf, 0.23") 9315-9350', 3sx"H"WL dmp bailer Atoka 8958'-69' Plg1 Mrkr Jt 11.17' @ 9326.09'-9337.26' 9034'-38' (5h, 1spf, 0.23") CIBP 9350 9096-'9103' (8h, 1spf, 0.23") 9413'-34' 9315'-9350' 3sx"H" dmp bailer Plug1 CIBP 9350' CIBP 9480' Morrow 9413'-34' (22H, 0.23" EHD) 8/8/2006 9501'-9504' **CIBP** 9480' 8/4/2006 9514'-9522' 9501'-9504' (4H, 0.23" EHD) 6/22/2006 9580'-9586' 9514'-9522' (9H, 0.23" EHD) 6/22/2006 PBTD: 9770' (9,725.39' FC) 9580'-9586' (36h, 0.41 EHD) 5/18/2006 Hole Sizes 17-1/2" 410', 12-1/4" 2995', 8-3/4" 9800' 4-1/2" 11.6# N-80 LT&C@ 9,774.99'